

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (CURRENTLY AMENDED) A method of producing corn hybrid seed in a production field comprising:
 - a) planting a female elite yellow corn inbred which is homozygous for the GaS allele;
 - b) planting a male corn ~~inbred line~~ inbred which is homozygous for the GaS allele, and
 - c) allowing said male to cross with said female to produce F₁ hybrid seed which is homozygous for the GaS allele, and harvesting the resultant F₁ hybrid seed.
2. (CANCELED)
3. (CURRENTLY AMENDED) The method of claim 1 wherein said male corn inbred is an elite yellow corn inbred.
4. (ORIGINAL) The F₁ seed produced by the method of claim 1.
5. (CURRENTLY AMENDED) A method of producing field corn comprising:
 - a) planting a male non-popcorn ~~or, alternatively,~~ non-sweetcorn corn inbred which is homozygous for the GaS allele;
 - b) allowing said male inbred to cross with a second corn genotype as the female to produce F₁ hybrid seed and harvesting the resultant F₁ seed.
6. (CANCELED)
7. (ORIGINAL) The method of claim 5 wherein said second corn genotype is an elite yellow corn inbred.
8. (CURRENTLY AMENDED) The elite F₁ seed produced by the method of claim 5.

9. (ORIGINAL) An elite yellow corn inbred plant homozygous for GaS alleles.
10. (PREVIOUSLY PRESENTED) Yellow dent or yellow flint corn seed produced by selfing the inbred plant of claim 9.
11. (CURRENTLY AMENDED) Elite yellow corn hybrid plants, which contain at least one GaS allele and which are not sweetcorn and not popcorn, produced by using the inbred plant of claim 9 as one of its parents.
12. (PREVIOUSLY PRESENTED) An elite yellow corn inbred plant heterozygous for GaS and ga alleles.
13. (CURRENTLY AMENDED) Corn seed produced by selfing the inbred plant of claim 12 wherein the seed contains at least one GaS allele.
14. (PREVIOUSLY PRESENTED) Elite yellow corn hybrid plants, which contain at least one GaS allele and which are not sweetcorn, produced by using the inbred plant of claim 12 as one of its parent.
15. (CURRENTLY AMENDED) The method of claim 1 wherein said F_1 seed produced has less than .05 percent ~~outcross~~ seed produced by contamination or pollination from nearby corn fields.
16. (CURRENTLY AMENDED) The method of claim 1 wherein said F_1 seed produced has less than .01 percent ~~outcross~~ seed produced by contamination or pollination from nearby corn fields.
17. (WITHDRAWN) A method of producing an elite yellow corn GaS inbred comprising:
 - a) crossing a corn inbred containing the GaS allele with an elite yellow corn inbred to produce an F_1 hybrid seed;
 - b) planting said F_1 hybrid seed to produce F_1 plants;
 - c) self pollinating said plants and, within four hours, also pollinating said plants with pollen from a purple marker corn to produce corn ears;
 - d) selecting said ears having no purple kernels;
 - e) planting kernels from said selected ears to produce a plant; and

f) repeating steps c), d) and e) from 1 to 7 times to produce a new GaS corn inbred.

18. (WITHDRAWN) A method of selecting GaS GaS homozygous corn plants from corn plant heterozygous for GaS ga in a segregating population comprising:

- a) crossing said plants with pollen from a purple seeded plant;
- b) self pollinating said plants between about 4 hours and about 40 hours after said cross; and
- c) harvesting ears from said plants which have no purple seeds.

19. (WITHDRAWN) The method of claim 18, wherein said self pollination is completed between about 16 hours and about 30 hours after said cross.

20. (WITHDRAWN) The seed produced by the method of claim 18.

21. (NEW) A method of producing field corn comprising:

- a) planting a male non-popcorn, non-sweetcorn elite yellow corn inbred which is homozygous for the GaS allele; and
- b) allowing said male inbred to cross with a second corn genotype as the female to produce F₁ hybrid seed and harvesting the resultant F₁ seed.